

33–560 Checking upper control arm

Data

Permissible distortion of ball pin for guide joint

0.5

Special tool

Mounting for guide joint (concentricity test)



116 589 05 31 00

Assembly sleeve for wire clamping ring
on sleeve of guide joint



116 589 02 14 00

Conventional tools

Measuring stand

e.g. made by Bosch, D-7000 Stgt. Feuerbach
order No. 0 601 980 001

Dial gauge A 1 DIN 878

e.g. made by Mahr, D-7300 Esslingen
order No. 810

Note

Checkup of upper control arm includes checking
distortion of ball pin in guide joint.

Checking

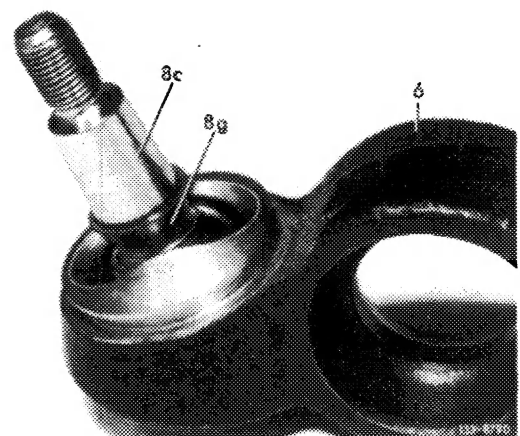
1 Take-off sleeve of guide joint and remove lubricant
supply (33.2–430).

Attention!

Do not wash out guide joint.

2 Check supporting ring of guide joint.

6 Upper control arm
8c Ball pin
8g Supporting ring

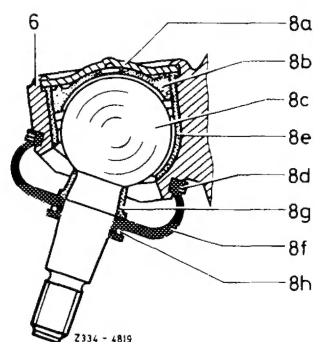


Note: The supporting ring may have become damaged by excessive deflection of ball pin. In such a case, renew control arm and check steering knuckle (33.2–410).

Contact marks of control arm on supporting ring are of no significance.

Guide joint

- | | |
|-----------------------|-----------------------|
| 6 Upper control arm | 8e Ball shell |
| 8a Closing cover | 8f Sleeve |
| 8b Upper ball shell | 8g Supporting ring |
| 8c Ball pin | 8h Wire clamping ring |
| 8d Wire clamping ring | |



Note: If supporting ring is undamaged, check ball pin for distortion.

3 Clamp mounting ring (051) in a lathe chuck.

4 Introduce ball pin into mounting ring (051) and press-on.

5 Position dial gauge with 1 mm preload at upper control arm and measure distortion of ball pin at approx. 25/min.

If ball pin is distorted beyond permissible dimension, renew control arm and check steering knuckle (33–410).

